

A NEW SPECIES OF AGRILUS FROM HACKBERRY (CELTIS  
OCCIDENTALIS LINNAEUS)  
(COLEOPTERA: BUPRESTIDAE)<sup>1</sup>

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*Agrilus paracelti* NEW SPECIES

MALE.—Form small, elongate, elytra slightly flattened, shining; head metallic green becoming dark cupreous on occiput; pronotum same color as vertex; elytra dark cupreous; beneath darker, more shining than above.

Head with front flat, without median depression; surface densely, finely granulose, becoming rugose on occiput, densely clothed with semierect, white pubescence; antennae extending beyond middle of pronotum, serrate from the fifth segment, outer segments about as long as wide.

Pronotum wider than long, about equal at base and apex; sides obliquely rounded in front, slightly sinuate near base; when viewed from the side, marginal and submarginal carinae are separated in front and joined just behind middle; anterior margin strongly sinuate, median lobe prominently rounded; basal margin emarginate at middle of each elytron, median lobe emarginate in front of scutellum; disk convex, with a broad shallow depression in front of scutellum and a less marked one in front of it, a lateral depression each side along margin; pre humeral carinae sharp; surface lightly transversely rugose, finely punctate between rugae, white pubescence sparse in lateral depressions and at base. Scutellum transversely carinate, surface granulose.

Elytra at base wider than base of pronotum; sides subparallel in front, constricted in front of middle, broadly expanded behind middle, then obliquely narrowed to broadly rounded serrulate apices; disk slightly flattened, sutural margins elevated behind middle, broad deep basal depressions present, a slight median depression on basal half of each elytron; surface imbricate-punctate, uniformly clothed with short recumbent white hairs which are longer in basal depressions and down middle of each elytron.

Abdomen beneath sparsely, finely punctate, a recumbent white hair arising from each puncture, first segment flattened at middle. Prosternum densely

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clothed with long erect pubescence which extends in a line to first segment of abdomen; prosternal lobe declivous, subtruncate in front. Tibiae slender, anterior and middle pairs armed with a tooth on inner margin at apex. Tarsal claws similar on all legs, cleft, inner tooth broad and much shorter than outer one.

FEMALE.—Differs from the male in the cupreous front, lack of median line of long pubescence on ventral surface, and lack of a tooth at apex of anterior and middle tibiae.

Length 4.5 mm.; width 1.1 mm.

Type male, allotype and 23 paratypes taken from the foliage of hackberry (*Celtis occidentalis* Linnaeus) in John Bryan State Park, Greene Co., Ohio, June 15, 1971; also in same locality 27 paratypes taken June 21, 1971, all collected by D. J. and J. N. Knull.

Other paratypes include Ohio: Greene Co., June 10, 1964 (3); Warren Co., June 4, 1952 (2), all taken by D. J. and J. N. Knull. Pennsylvania: Hummelstown, June 3, 1917 (3) and June 2, 1920 (1), reared from dead branches of hackberry by J. N. Knull. South Dakota: Eureka, June 24 (1) and Highmore, June 23, 1952, (4) collected by H. C. Severin. Texas: Corpus Christi Lake, March 17, 1952 (1); Burnett Co., April 5, 1953 (4); Gillespie Co., April 5, 1953 (19); Uvalde Co., May 11, 1946 (19); Hidalgo Co., June 1, 1964 (1); Val Verde Co., May 6, 1941 (13), all collected by D. J. and J. N. Knull.

Specimens not included in the type series have been seen from New Jersey and Staten Island, New York.

This species is close to *Agrilus pubescens* Fisher (1928), and in fact some of his paratypes from Texas which I examined are actually this species.

*Agrilus pubescens* was described from four specimens reared by M. Chrisman from catclaw (*Acacia greggii* Gray) collected at Tanke Verde, Arizona. The front of the head of the type is coppery, whereas in *paracelti* the front is metallic green. The marginal and submarginal carinae of pronotum are separated for nearly the entire length, whereas in *paracelti* they are joined slightly back of middle. The pronotum of *pubescens* is more arcuately rounded on the sides with a shallow median depression extending from near anterior margin to base. The elytral apices are more acutely rounded in *pubescens*.

This species is confused in collections with *Agrilus celti* Knull (1929) and can be separated by the male genitalia as figured by Knull (1945) and also by lack of pubescence on elytra. The male genitalia are similar to those of *Agrilus cladrastis* Knull (1945). The latter lacks long pubescence on prosternum and median ventral surface.

There is some variation in size and color. Some females are cupreous. The line of pubescence on each elytron varies in density; those from Texas are more pubescent.

The deeply emarginate prosternal lobe of *Agrilus olentangyi* Champlain and Knull (1925) which also breeds in hackberry will separate the two species.

Type, allotype and paratypes in collection of author. Paratypes in collection of Ohio State University Collection of Insects and Spiders, California Academy of Sciences, U.S. National Museum and G. H. Nelson.

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Male genitalia of *Agrilus paracelti* new species: length 1.1 mm. 1. Dorsal surface; 2. Ventral surface.

#### LITERATURE CITED

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2.0149 A new species of *Agrilus* from Hackberry (*Celtis occidentalis* Linnaeus) (Coleoptera: Buprestidae).

ABSTRACT.—A new species which breeds in hackberry, *Agrilus paracelti*, is described. Distribution includes New Jersey, New York, Ohio, Pennsylvania, South Dakota and Texas.—J. N. Knull, Department of Entomology, Ohio State University, Columbus, OH 43210.

*Descriptors*: Coleoptera; Buprestidae, *Agrilus*, new species, United States; Hackberry, host of *Agrilus*, new species; *Celtis occidentalis*, host of *Agrilus*, new species.